

10/736,005

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NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks  
(ROSPATENT) added to list of core patent offices covered  
NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status  
data from INPADOC  
NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available  
NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded  
NEWS 7 MAR 02 GBFULL: New full-text patent database on STN  
NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced  
NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded  
NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced  
NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY  
NEWS 12 MAR 22 PATDPASPC - New patent database available  
NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags  
NEWS 14 APR 04 EPFULL enhanced with additional patent information and new  
fields  
NEWS 15 APR 04 EMBASE - Database reloaded and enhanced  
  
NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005  
  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 12:17:27 ON 07 APR 2005

=> FIL REGISTRY

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

10/736005

BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 3 TO 163  
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> s 17 sss full

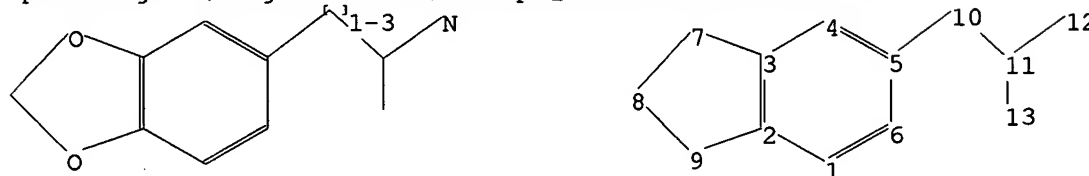
FULL SEARCH INITIATED 12:41:02 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 68 TO ITERATE

100.0% PROCESSED 68 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L9 0 SEA SSS FUL L7

=>

Uploading C:\Program Files\Stnexp\Queries\10736018c.str



chain nodes :  
10 11 12 13  
ring nodes :  
1 2 3 4 5 6 7 8 9  
chain bonds :  
5-10 10-11 11-12 11-13  
ring bonds :  
1-2 1-6 2-3 2-9 3-4 3-7 4-5 5-6 7-8 8-9  
exact/norm bonds :  
11-12  
exact bonds :  
2-9 3-7 5-10 7-8 8-9 10-11 11-13  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6  
isolated ring systems :  
containing 1 :

G1:H,CH3,Et

G2:CH3,Et,H

Hydrogen count :  
1:= exact 1 4:= exact 1 6:= exact 1 8:= exact 2 10:= exact 2 11:= exact 1  
13:= exact 3  
Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS  
11:CLASS 12:CLASS 13:CLASS

L10 STRUCTURE UPLOADED

=> s 110

SAMPLE SEARCH INITIATED 12:42:57 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 297 TO ITERATE

100.0% PROCESSED 297 ITERATIONS  
SEARCH TIME: 00.00.01

21 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 4907 TO 6973  
PROJECTED ANSWERS: 145 TO 693

L11 21 SEA SSS SAM L10

=> s l10 sss full  
FULL SEARCH INITIATED 12:43:13 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 5966 TO ITERATE

100.0% PROCESSED 5966 ITERATIONS  
SEARCH TIME: 00.00.01

598 ANSWERS

L12 598 SEA SSS FUL L10

=> FIL CAPLUS  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

	SINCE FILE ENTRY	TOTAL SESSION
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FILE 'CAPLUS' ENTERED AT 12:43:30 ON 07 APR 2005  
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 15  
FILE LAST UPDATED: 6 Apr 2005 (20050406/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L13 2101 L12  
=> s l13 and determin? or detect?  
786021 DETERMIN?  
598629 DET  
37273 DETS  
632931 DET  
(DET OR DETS)  
1952526 DETD  
318256 DETG  
1471276 DETN  
130107 DETNS  
1547459 DETN  
(DETN OR DETNS)  
3895108 DETERMIN?

(DETERMIN? OR DET OR DETD OR DETG OR DETN)  
1451462 DETECT?  
L14 1451752 L13 AND DETERMIN? OR DETECT?

=> s l13 and (determin? or detect?)  
786021 DETERMIN?  
598629 DET  
37273 DETS  
632931 DET  
(DET OR DETS)  
1952526 DETD  
318256 DETG  
1471276 DETN  
130107 DETNS  
1547459 DETN  
(DETN OR DETNS)  
3895108 DETERMIN?  
(DETERMIN? OR DET OR DETD OR DETG OR DETN)  
1451462 DETECT?  
L15 731 L13 AND (DETERMIN? OR DETECT?)

=> s l15 and (protein or label)  
1730008 PROTEIN  
1200777 PROTEINS  
2008778 PROTEIN  
(PROTEIN OR PROTEINS)  
56478 LABEL  
19010 LABELS  
67557 LABEL  
(LABEL OR LABELS)  
L16 59 L15 AND (PROTEIN OR LABEL)

=> s l16 and (ecstasy or ?amphetamine)  
720 ECSTASY  
23840 ?AMPHETAMINE  
L17 54 L16 AND (ECSTASY OR ?AMPHETAMINE)

=> s l17 and antibody  
275082 ANTIBODY  
318420 ANTIBODIES  
429627 ANTIBODY  
(ANTIBODY OR ANTIBODIES)  
L18 16 L17 AND ANTIBODY

=> s l18 and immunogen  
5878 IMMUNOGEN  
3272 IMMUNOGENS  
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(IMMUNOGEN OR IMMUNOGENS)  
L19 8 L18 AND IMMUNOGEN

=> d l19 ibib abs hitstr tot

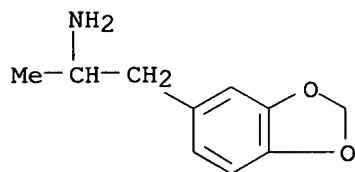
L19 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:693233 CAPLUS  
DOCUMENT NUMBER: 139:207730  
TITLE:

**Antibodies for detecting  
amphetamine derivatives, compounds useful in  
antibody production, reagent kits, and  
detection methods for amphetamine  
derivatives**

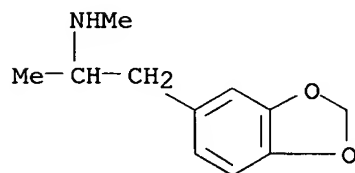
INVENTOR(S): Hui, Raymond A.  
PATENT ASSIGNEE(S): Roche Diagnostics G.m.b.H., Germany; F. Hoffmann-La

SOURCE: Roche A.-G.  
 Eur. Pat. Appl., 30 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

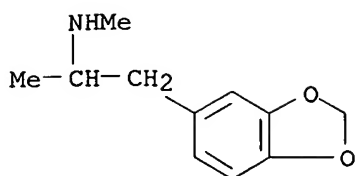
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2003175995	A1	<u>20030918</u>	US <u>2002-87469</u>	20020301
CA 2419696	AA	20030901	CA 2003-2419696	20030224
JP 2004002316	A2	20040108	JP 2003-49924	20030226
PRIORITY APPLN. INFO.:			US 2002-87469	A 20020301
OTHER SOURCE(S): MARPAT 139:207730				
<p>AB Compds. including haptens, intermediates, and <b>immunogens</b> that are useful in the production of <b>antibodies</b> specific for the methylenedioxy class of <b>amphetamine</b> derivs. are described. <b>Antibodies</b> specific for the methylenedioxy class of <b>amphetamine</b> derivs., reagent kits containing <b>antibodies</b> specific for the methylenedioxy class of <b>amphetamine</b> derivs., methods of producing <b>antibodies</b> specific for the methylenedioxy class of <b>amphetamine</b> derivs., and methods of <b>detecting</b> analytes including members of the methylenedioxy class of <b>amphetamine</b> derivs. are also described.</p> <p>IT 4764-17-4, MDA 42542-10-9, MDMA 42542-10-9D, Ecstasy, derivs. 74698-36-5, MDPA 82801-81-8, MDEA</p> <p>RL: ANT (Analyte); ANST (Analytical study)        (antibodies for detecting <b>amphetamine</b> derivs., compds. for <b>antibody</b> production, reagent kits, and <b>detection</b> methods for <b>amphetamine</b> derivs.)</p> <p>RN 4764-17-4 CAPLUS</p> <p>CN 1,3-Benzodioxole-5-ethanamine, <math>\alpha</math>-methyl- (9CI) (CA INDEX NAME)</p>				



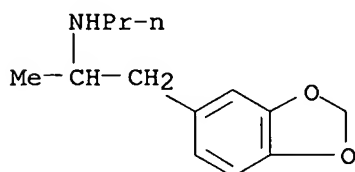
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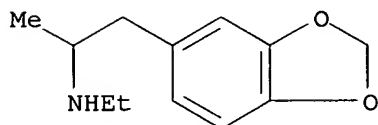
RN 42542-10-9 CAPLUS  
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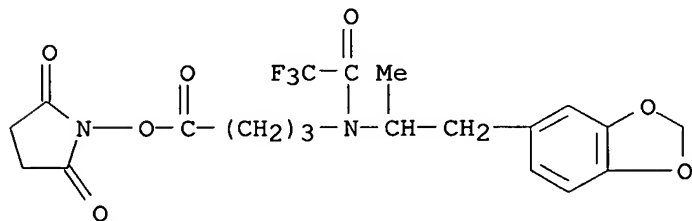
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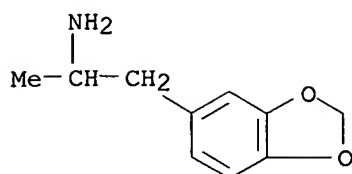
RN 82801-81-8 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- $\alpha$ -methyl- (9CI) (CA INDEX NAME)



IT **590346-15-9DP**, carrier **protein** conjugates  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (**antibodies for detecting amphetamine**  
 derivs., compds. for **antibody** production, reagent kits, and  
**detection** methods for **amphetamine** derivs.)  
 RN 590346-15-9 CAPLUS  
 CN Acetamide, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-N-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



IT **590346-12-6**  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (**antibodies for detecting amphetamine**  
 derivs., compds. for **antibody** production, reagent kits, and  
**detection** methods for **amphetamine** derivs.)  
 RN 590346-12-6 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine,  $\alpha$ -methyl-, hydrobromide (9CI) (CA INDEX NAME)



● HBr

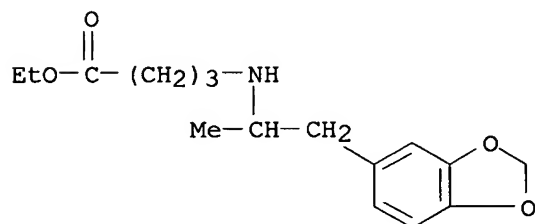
IT 590346-11-5P 590346-13-7P 590346-14-8P  
590346-15-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(antibodies for detecting amphetamine  
derivs., compds. for antibody production, reagent kits, and  
detection methods for amphetamine derivs.)

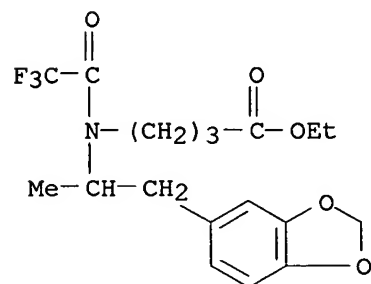
RN 590346-11-5 CAPLUS

CN Butanoic acid, 4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



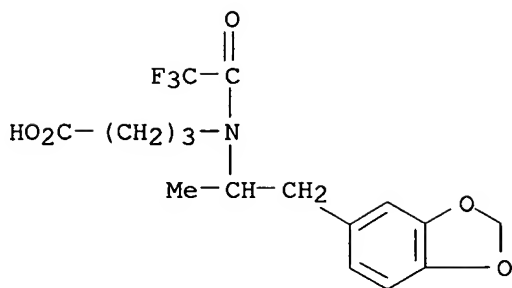
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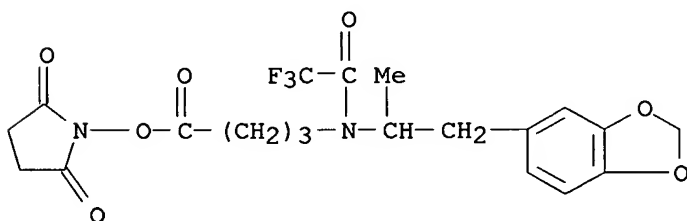
RN 590346-14-8 CAPLUS

CN Butanoic acid, 4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl](trifluoroacetyl)amino]- (9CI) (CA INDEX NAME)



RN 590346-15-9 CAPLUS

CN Acetamide, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-N-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



IT 66142-89-0

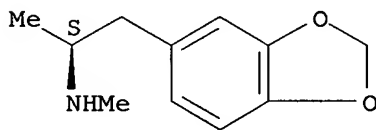
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)

(cross-reactivity; **antibodies** for **detecting amphetamine** derivs., compds. for **antibody** production, reagent kits, and **detection** methods for **amphetamine** derivs.)

RN 66142-89-0 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, $\alpha$ -dimethyl-, ( $\alpha$ S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L19 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:693232 CAPLUS

DOCUMENT NUMBER: 139:207729

TITLE: **Amphetamine** derivatives, **antibodies** to the derivatives, reagent kits, methods of producing the **antibodies**, and methods of **detecting** the derivatives

INVENTOR(S): Hui, Raymond A.; Root, Richard T.; Vitone, Stephan S.  
PATENT ASSIGNEE(S): Roche Diagnostics G.m.b.H., Germany; F. Hoffmann-La Roche A.-G.

SOURCE: Eur. Pat. Appl., 34 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English



FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

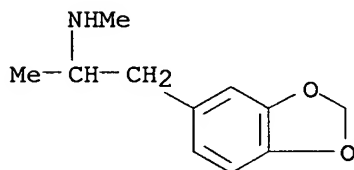
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1340980	A1	20030903	EP 2003-3297	20030225
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2003170917	A1	20030911	US 2002-87612	20020301
CA 2419698	AA	20030901	CA 2003-2419698	20030224
JP 2004123692	A2	20040422	JP 2003-49992	20030226
PRIORITY APPLN. INFO.:			US 2002-87612	A 20020301
OTHER SOURCE(S):	MARPAT 139:207729			

AB Compds. including haptens, intermediates, and **immunogens** that are useful in the production of **antibodies** specific for the methylenedioxy class of **amphetamine** derivs. are described. **Antibodies** specific for the methylenedioxy class of **amphetamine** derivs., reagent kits containing **antibodies** specific for the methylenedioxy class of **amphetamine** derivs., methods of producing **antibodies** specific for the methylenedioxy class of **amphetamine** derivs., and methods of **detecting** analytes including members of the methylenedioxy class of **amphetamine** derivs. are also described.

IT 42542-10-9, Ecstasy 42542-10-9D, Ecstasy, derivs. 82801-81-8, MDEA  
 RL: ANT (Analyte); ANST (Analytical study)  
 (**amphetamine** derivs., anti-derivative **antibodies**, reagent kits, **antibody** production, and derivative **detection** methods)

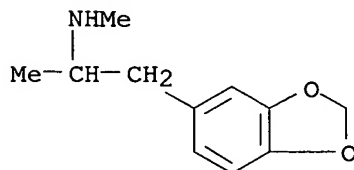
RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, $\alpha$ -dimethyl- (9CI) (CA INDEX NAME)



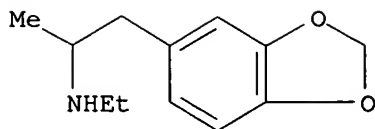
RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, $\alpha$ -dimethyl- (9CI) (CA INDEX NAME)

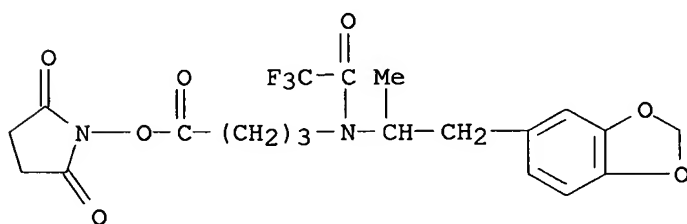


RN 82801-81-8 CAPLUS

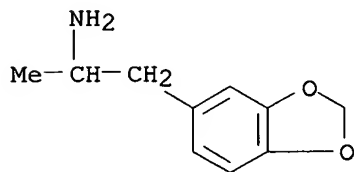
CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- $\alpha$ -methyl- (9CI) (CA INDEX NAME)



IT **590346-15-9DP**, carrier **protein** conjugates  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (**amphetamine** derivs., anti-derivative **antibodies**, reagent kits, **antibody** production, and derivative **detection** methods)  
 RN 590346-15-9 CAPLUS  
 CN Acetamide, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-N-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

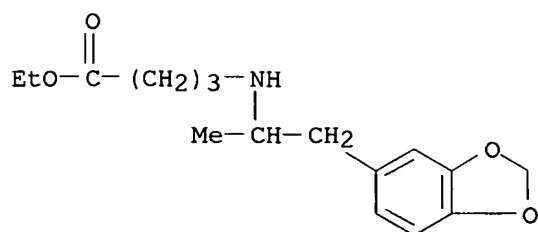


IT **590346-12-6**  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (**amphetamine** derivs., anti-derivative **antibodies**, reagent kits, **antibody** production, and derivative **detection** methods)  
 RN 590346-12-6 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine,  $\alpha$ -methyl-, hydrobromide (9CI) (CA INDEX NAME)



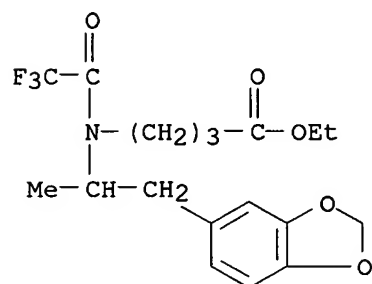
● HBr

IT **590346-11-5P 590346-13-7P 590346-14-8P 590346-15-9P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (**amphetamine** derivs., anti-derivative **antibodies**, reagent kits, **antibody** production, and derivative **detection** methods)  
 RN 590346-11-5 CAPLUS  
 CN Butanoic acid, 4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



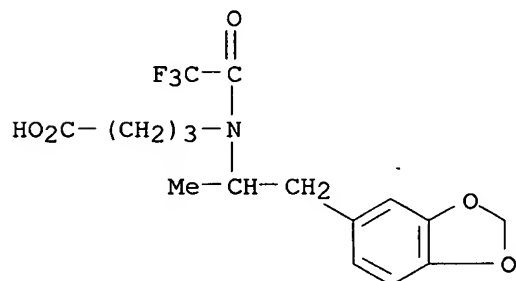
RN 590346-13-7 CAPLUS

CN Butanoic acid, 4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl](trifluoroacetyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



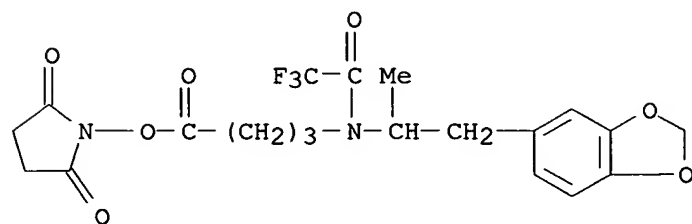
RN 590346-14-8 CAPLUS

CN Butanoic acid, 4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl](trifluoroacetyl)amino]- (9CI) (CA INDEX NAME)



RN 590346-15-9 CAPLUS

CN Acetamide, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-N-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



IT 66142-89-0 74698-36-5, MDPA

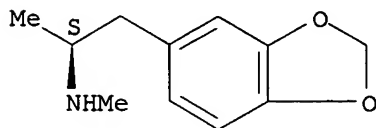
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)

(cross-reactivity; **amphetamine** derivs., anti-derivative **antibodies**, reagent kits, **antibody** production, and derivative **detection** methods)

RN 66142-89-0 CAPLUS

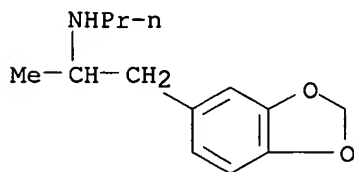
CN 1,3-Benzodioxole-5-ethanamine, N, $\alpha$ -dimethyl-, ( $\alpha$ S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 74698-36-5 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine,  $\alpha$ -methyl-N-propyl- (9CI) (CA INDEX NAME)

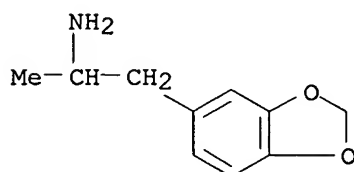


IT **4764-17-4P**, MDA

RL: ANT (Analyte); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)  
(cross-reactivity; **amphetamine** derivs., anti-derivative **antibodies**, reagent kits, **antibody** production, and derivative **detection** methods)

RN 4764-17-4 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine,  $\alpha$ -methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:488680 CAPLUS

DOCUMENT NUMBER: 139:48560

TITLE: Method and kit for **detecting**, or **determining**, 3,4-**methylenedioxymethamphetamine**

INVENTOR(S): Mcconnell, Robert Ivan; Benchikh, El Ouard; Fitzgerald, Stephen P.; Lamont, John Victor

PATENT ASSIGNEE(S): Radox Laboratories Ltd., UK

SOURCE: Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1321772	A1	20030625	EP 2002-80462	20021217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
CN 1429844	A	20030716	CN 2002-139960	20021220
US 2004121400	A1	20040624	US 2002-326742	20021220
PRIORITY APPLN. INFO.:			EP 2001-205058	A 20011220
OTHER SOURCE(S):			MARPAT 139:48560	

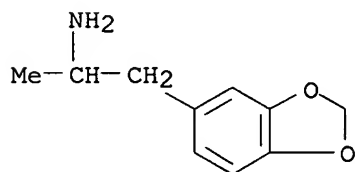
AB The present invention describes a hapten derivatized with a crosslinker at the N-position of 3,4-methylenedioxyamphetamine (MDMA). The present invention provides an immunogen comprising the aforementioned hapten, coupled to an antigenicity-conferring carrier material, as well as, conjugates comprising the aforementioned hapten covalently bonded to a detectable labeling agent. In addition, the present invention concerns antibodies raised against the aforementioned immunogens. Finally, the present invention relates to methods and kits for detecting or determining MDMA and N-alkylated derivs. of methylenedioxyamphetamine in biol. fluids. The antibodies of the present invention do not significantly cross-react with amphetamine and methamphetamine. Haptens and immunogens and horseradish peroxidase-labeled hapten reagents were prepared from (3,4-methylenedioxy)phenylacetic acid for the development of competitive ELISAs for MDMA.

IT 4764-17-4, MDA 82801-81-8, 3,4-Methylenedioxyethylamphetamine

RL: BSU (Biological study, unclassified); BIOL (Biological study) (antibody cross-reactivity with; immunoassay, haptens, reagents and kit for determining 3,4-methylenedioxyamphetamine in body fluids)

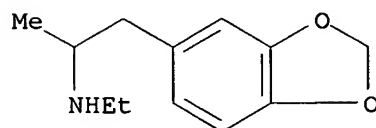
RN 4764-17-4 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine,  $\alpha$ -methyl- (9CI) (CA INDEX NAME)



RN 82801-81-8 CAPLUS

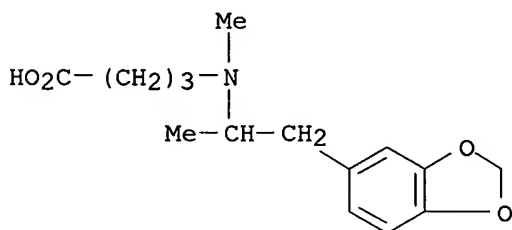
CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- $\alpha$ -methyl- (9CI) (CA INDEX NAME)



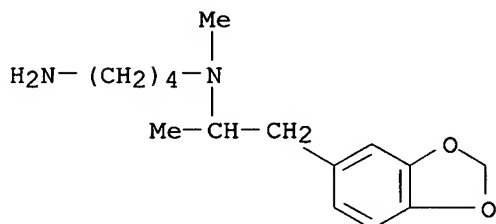
IT 547713-13-3P 547713-15-5P 547713-16-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(as hapten; immunoassay, haptens, reagents and kit for determining

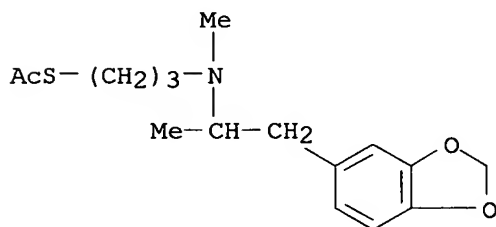
3,4-methylenedioxyamphetamine in body fluids)  
 RN 547713-13-3 CAPLUS  
 CN Butanoic acid, 4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]methylamino]-  
 (9CI) (CA INDEX NAME)



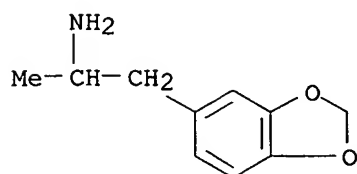
RN 547713-15-5 CAPLUS  
 CN 1,4-Butanediamine, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-N-methyl-  
 (9CI) (CA INDEX NAME)



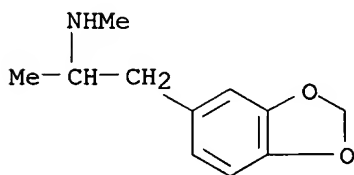
RN 547713-16-6 CAPLUS  
 CN Ethanethioic acid, S-[3-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]methylamino]propyl] ester (9CI) (CA INDEX NAME)



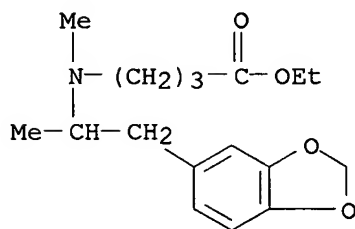
IT **4764-17-4D, Methylenedioxyamphetamine, N-alkylated**  
 derivs.  
 RL: ANT (Analyte); ANST (Analytical study)  
 (immunoassay, haptens, reagents and kit for **determining 3,4-**  
**methylenedioxyamphetamine** in body fluids)  
 RN 4764-17-4 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine,  $\alpha$ -methyl- (9CI) (CA INDEX NAME)



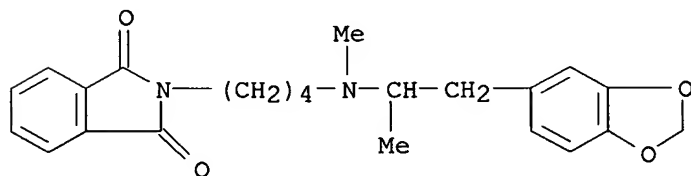
IT **42542-10-9P, 3,4-Methylenedioxyamphetamine**  
 RL: ANT (Analyte); SPN (Synthetic preparation); ANST (Analytical study);  
 PREP (Preparation)  
 (immunoassay, haptens, reagents and kit for **determining 3,4-methylenedioxyamphetamine** in body fluids)  
 RN 42542-10-9 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine, N, $\alpha$ -dimethyl- (9CI) (CA INDEX NAME)



IT **547713-12-2P 547713-14-4P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (in preparation of hapten; immunoassay, haptens, reagents and kit for  
**determining 3,4-methylenedioxyamphetamine** in body  
 fluids)  
 RN 547713-12-2 CAPLUS  
 CN Butanoic acid, 4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]methylamino]-,  
 ethyl ester (9CI) (CA INDEX NAME)



RN 547713-14-4 CAPLUS  
 CN 1H-Isoindole-1,3(2H)-dione, 2-[4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]methylamino]butyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:155666 CAPLUS

DOCUMENT NUMBER: 136:162629

TITLE: **Ecstasy**-class analogs and use of same in  
**detection of ecstasy**-class compounds

INVENTOR(S): Rouhani, Riaz; Sanchez, Anthony De Jesus; Davoudzadeh,  
 David; Coty, William A.; Vistica, Cynthia A.

PATENT ASSIGNEE(S): Microgenics Corporation, USA

SOURCE: Brit. UK Pat. Appl., 89 pp.

CODEN: BAXXDU  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

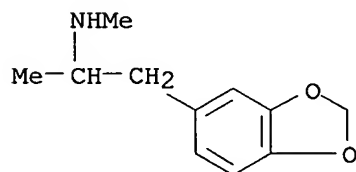
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2361473	A1	20011024	GB 2001-5517	20010306
GB 2361473	B2	20040901		
DE 10111224	A1	20020221	DE 2001-10111224	20010308
US 2003207469	A1	20031106	US 2003-457314	20030609
PRIORITY APPLN. INFO.:			US 2000-521070	A 20000308
OTHER SOURCE(S):	MARPAT 136:162629			

AB The present invention provides a system for the improved **detection** of **ecstasy**-class compds. in biol. samples. New **ecstasy**-class analogs are provided for **detection** of such **ecstasy**-class drugs. These analogs are compds. or salts thereof, of a 2-amino-methylenedioxyphenyl derivative attached to Z, where Z is a moiety capable of bonding, either directly or indirectly, with an immunogenic carrier, a **detectable label**, or a solid capture vehicle. Such analogs may be used to construct **immunogens**, enzyme or enzyme-donor conjugates, and other conjugates. The **immunogens** reproducibly generate **antibodies** with an exquisite ability to distinguish various **ecstasy**-class drugs in biol. samples from potentially interfering substances. The specific **antibodies** and conjugates may be used to distinguish and measure various **ecstasy**-class compds. in biol. samples, such as those obtained from an individual suspected of substance abuse. In another aspect, the invention includes certain reagents, reagent combinations, and kits for performing assay methods for **ecstasy**-class compds. in a biol. sample.

IT **42542-10-9, Ecstasy 42542-10-9D, Ecstasy**, analogs **82801-81-8, N-Ethyl-3,4-methylenedioxyamphetamine**  
 RL: ANT (Analyte); ANST (Analytical study)  
 (**ecstasy**-class analogs and use of same in **detection** of **ecstasy**-class compds.)

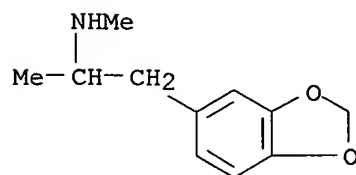
RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, $\alpha$ -dimethyl- (9CI) (CA INDEX NAME)



RN 42542-10-9 CAPLUS

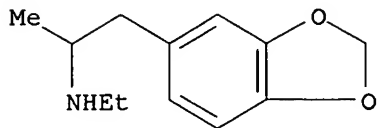
CN 1,3-Benzodioxole-5-ethanamine, N, $\alpha$ -dimethyl- (9CI) (CA INDEX NAME)



RN 82801-81-8 CAPLUS



CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- $\alpha$ -methyl- (9CI) (CA INDEX NAME)

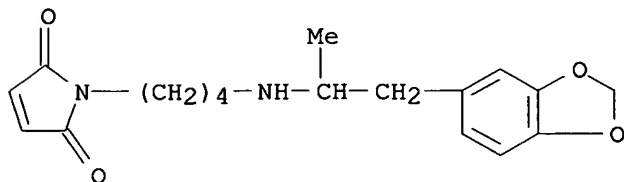


IT 397334-21-3P

RL: BSU (Biological study, unclassified); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)  
(ecstasy-class analogs and use of same in **detection** of **ecstasy**-class compds.)

RN 397334-21-3 CAPLUS

CN 1H-Pyrrole-2,5-dione, 1-[4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]amino]butyl]- (9CI) (CA INDEX NAME)

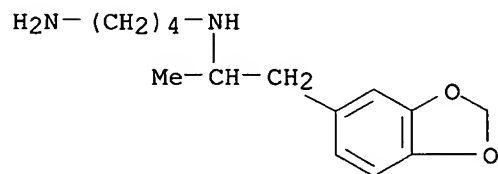


IT 397334-20-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(ecstasy-class analogs and use of same in **detection** of **ecstasy**-class compds.)

RN 397334-20-2 CAPLUS

CN 1,4-Butanediamine, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]- (9CI) (CA INDEX NAME)

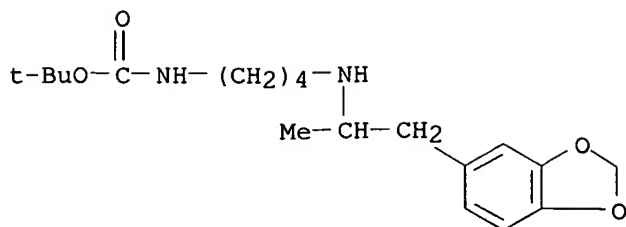


IT 397334-19-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(ecstasy-class analogs and use of same in **detection** of **ecstasy**-class compds.)

RN 397334-19-9 CAPLUS

CN Carbamic acid, [4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]amino]butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L19 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:127568 CAPLUS

DOCUMENT NUMBER: 120:127568

TITLE: Dual analyte immunoassay for **amphetamine** and **methamphetamine**

INVENTOR(S): Ordonez, Kathy Palmer; Salamone, Salvatore Joseph

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 574782	A2	19931222	EP 1993-109091	19930607
EP 574782	A3	19940209		
EP 574782	B1	19981021		
R: BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT				
CA 2096495	AA	19931217	CA 1993-2096495	19930518
CA 2096495	C	20020709		
ES 2123589	T3	19990116	ES 1993-109091	19930607
JP 06094711	A2	19940408	JP 1993-143841	19930615
JP 2726793	B2	19980311		
US 5501987	A	19960326	US 1994-258125	19940610
PRIORITY APPLN. INFO.:			US 1992-899196	A 19920616

OTHER SOURCE(S): MARPAT 120:127568

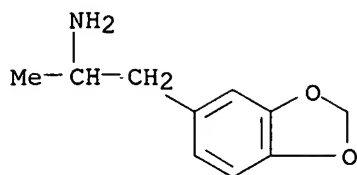
AB A dual analyte immunoassay for the **detection** of **amphetamine** and **methamphetamine** is provided in which only one labeled binding partner is used which can interact with the combination of **antibodies** and their corresponding analytes **detecting** the presence of the analytes either alone or in combination. The binding partner is a labeled derivative of one of the analytes capable of binding to both **antibodies** with different affinity. Preparation of of an amphetamine derivative **label**, a BSA conjugate, and microparticles sensitized with the conjugate are described. A standard curve for the assay is included, as are cross-reactivity data for **amphetamine**-related drugs.

IT **4764-17-4, Methylenedioxymphetamine 42542-10-9**  
**, Methylenedioxymethamphetamine**

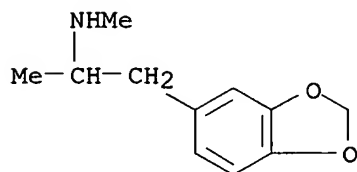
RL: ANST (Analytical study)  
(cross-reactivity of, in **amphetamine/methamphetamine**  
immunoassay with single labeled analyte derivative)

RN 4764-17-4 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine,  $\alpha$ -methyl- (9CI) (CA INDEX NAME)



RN 42542-10-9 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine, N,α-dimethyl- (9CI) (CA INDEX NAME)



L19 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1992:147517 CAPLUS  
 DOCUMENT NUMBER: 116:147517  
 TITLE: Phencyclidine and phencyclidine metabolite assays, tracers, **immunogens**, **antibodies** and reagent kit  
 INVENTOR(S): Dubler, Robert Edward; Frintner, Mary Pat; Grote, Jonathan; Hawksworth, David James; Nam, Daniel S.; Wray, Larry Kay; Hadley, Gregg Allen; Hopkins, Hal Dayton; Ungemach, Frank S.  
 PATENT ASSIGNEE(S): Abbott Laboratories, USA  
 SOURCE: Eur. Pat. Appl., 34 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 459387	A2	19911204	EP 1991-108674	19910528
EP 459387	A3	19920902		
EP 459387	B1	19950920		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
US 5155212	A	19921013	US 1990-529988	19900529
AU 9177272	A1	19911205	AU 1991-77272	19910522
AU 643524	B2	19931118		
CA 2043372	AA	19911130	CA 1991-2043372	19910528
AT 128241	E	19951015	AT 1991-108674	19910528
ES 2080188	T3	19960201	ES 1991-108674	19910528
JP 04235199	A2	19920824	JP 1991-125955	19910529
US 5407834	A	19950418	US 1992-831762	19920427
PRIORITY APPLN. INFO.:			US 1990-529988	A 19900529
			US 1986-866193	B2 19860521

OTHER SOURCE(S): MARPAT 116:147517

AB The present invention is directed to a fluorescence polarization assay for phenylcyclidine and phenylcyclidine derivs., to the various components needed for preparing and carrying out such an assay, and to methods of making these components. Specifically, tracers, **immunogens** and (monoclonal) **antibodies** are disclosed, as well as methods for making them, and a reagent kit containing them. The tracers and the

**immunogens** are made from substituted phencyclidine compds. A fluorescein moiety is included in the tracer, while a poly(amino acid) forms a part of the **immunogen**. The assay is conducted by measuring the degree of polarization retention of plane polarized light that has been passed through a sample containing antiserum and tracer. The assay has a high degree of specificity for phencyclidine and metabolites and analogs thereof, while minimizing mass reactivity to a host of other synthetic metabolites and naturally occurring compds.

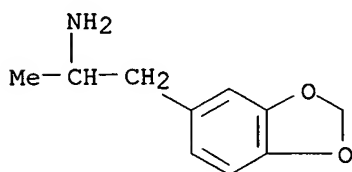
IT 4764-17-4 42542-10-9 82801-81-8

RL: ANST (Analytical study)

(phencyclidine fluorescence polarization immunoassay crossreactivity to)

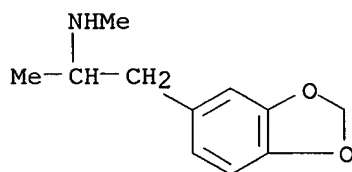
RN 4764-17-4 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine,  $\alpha$ -methyl- (9CI) (CA INDEX NAME)



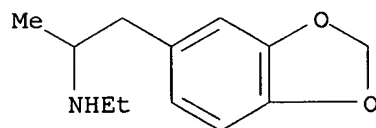
RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, $\alpha$ -dimethyl- (9CI) (CA INDEX NAME)



RN 82801-81-8 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- $\alpha$ -methyl- (9CI) (CA INDEX NAME)



L19 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:577279 CAPLUS

DOCUMENT NUMBER: 115:177279

TITLE: Reagents, methods, and kits for an **amphetamine**-class fluorescence polarization immunoassay

INVENTOR(S): Brynes, Paul Jeffrey; Johnson, Donald Duane; Molina, Cynthia Martha; Flentge, Charles Arthur; Jonas, Patrick F.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

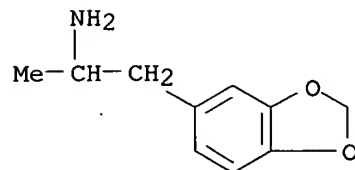
## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 399184	A2	19901128	EP 1990-106319	19900403
EP 399184	A3	19911227		
EP 399184	B1	19950913		
R: DE, ES, FR, IT				
US 5101015	A	19920331	US 1989-335627	19890410
ES 2079390	T3	19960116	ES 1990-106319	19900403
JP 02300663	A2	19901212	JP 1990-93823	19900409
JP 2894782	B2	19990524		
CA 2014318	AA	19901010	CA 1990-2014318	19900410
CA 2014318	C	20000808		
US 5248791	A	19930928	US 1992-820729	19920114
US 5354693	A	19941011	US 1993-83928	19930629
PRIORITY APPLN. INFO.:			US 1989-335627	A 19890410
			US 1992-820729	A3 19920114

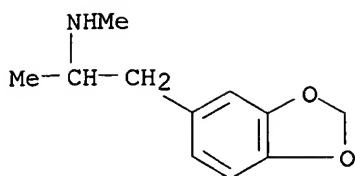
OTHER SOURCE(S): MARPAT 115:177279

AB A fluorescence polarization immunoassay (FPIA) for **detecting** the presence of  $\geq 1$  **amphetamine**-class analytes in a test sample is provided. The immunoassay uses competition between the analyte and a fluorescently labeled tracer for the binding site on an **antibody** specific for phenethylamine derivs. The concentration of **amphetamine**-class analyte in the sample **dets.** the amount of tracer that binds to the **antibody**. The amount of tracer/**antibody** complex formed can be quant. measured and is inversely proportional to the quantity of analyte in the test sample. Also provided are tracers, **immunogens** used to elicit **antibodies** for use as assay reagents, and assay kits incorporating these tracers and assay reagents. Thus, N-tert-butoxycarbonyl-N-carboethoxymethyl-d,l-**amphetamine** was prepared and used to prepare a N-carboxymethyl-d,l-**amphetamine**-albumin conjugate for use as **immunogen**. Synthesis of N-acetamidomethylfluorescein-d,l-**amphetamine** for use as a tracer is described, as is preparation of other tracers and immunogenic conjugates. The FPIA and reagents of the invention had sufficient cross-reactivity to **detect amphetamine**-class drugs at concns. which produce a stimulating or toxic effect. At the same time, concns. of phenethylamine-like substances common in certain foods (e.g. tryptamine and tyramine) were not readily **detected**. Pretreatment of test samples with riboflavin-binding **protein** decreased the background intensity of the samples.

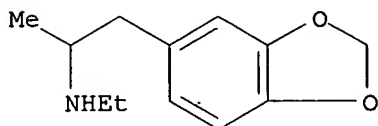
IT 4764-17-4, 3,4-Methylenedioxyamphetamine  
 42542-10-9, 3,4-Methylenedioxymethamphetamine  
 82801-81-8, N-Ethyl-3,4-Methylenedioxyamphetamine  
 RL: ANT (Analyte); ANST (Analytical study)  
 (detection of, by fluorescence-polarization immunoassay)  
 RN 4764-17-4 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine,  $\alpha$ -methyl- (9CI) (CA INDEX NAME)



RN 42542-10-9 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine, N, $\alpha$ -dimethyl- (9CI) (CA INDEX NAME)



RN 82801-81-8 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- $\alpha$ -methyl- (9CI) (CA INDEX NAME)



L19 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1991:464728 CAPLUS  
 DOCUMENT NUMBER: 115:64728  
 TITLE: Method, tracers, and reagents for immunochemical  
**detection of amphetamine** and/or d-  
**methamphetamine** or other phenethylamines in  
 biological samples  
 INVENTOR(S): Heiman, Daniel Feulner; Hsiang-Yun, Yang Hu; Johnson,  
 Sharon Ann  
 PATENT ASSIGNEE(S): Abbott Laboratories, USA  
 SOURCE: Eur. Pat. Appl., 49 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

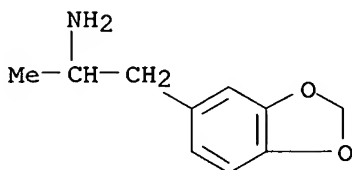
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 371253	A2	19900606	EP 1989-119701	19891024
EP 371253	A3	19900620		
EP 371253	B1	19950913		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
ES 2079368	T3	19960116	ES 1989-119701	19891024
AU 8943807	A1	19900503	AU 1989-43807	19891026
AU 634985	B2	19930311		
CA 2001696	AA	19900428	CA 1989-2001696	19891027
JP 02170050	A2	19900629	JP 1989-281627	19891028
US 5262333	A	19931116	US 1992-898238	19920612
PRIORITY APPLN. INFO.:			US 1988-265361	A 19881028
OTHER SOURCE(S):	MARPAT 115:64728			
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

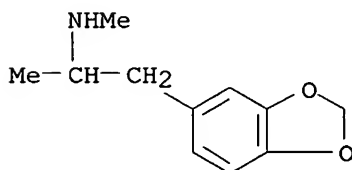
AB The title method, reagents, and tracers are used for **determining amphetamine** (I) and d-**methamphetamine** (II) in a biol. fluid, e.g. urine. The method can also **detect** certain "designer drugs", e.g. 3,4-**methylenedioxamphetamine**. An improved

fluorescence polarization immunoassay is provided for **determining** I and II in a single assay. The procedure includes pretreatment of the biol. sample with (1) aqueous IO4- solution to eliminate cross-reactants, e.g. hydroxyphenethylamine, and (2) riboflavin-binding **protein** to reduce fluorescence interference from riboflavin. Also provided are tracer compds., e.g. III (Q = fluorescein or fluorescein derivative; Z = NH, CO, SO2; R = linking group including ≤5 heteroatoms and a total of 0-15 C atoms and heteroatoms); preparation of the tracer compds. is described. An automatic assay apparatus and kit for performing the method of the invention are also described, as is the preparation of **immunogens** for production of **antibodies** for the immunoassay. Thus, tracers IV and V were prepared and used in an immunoassay for **determination** of I and II. Cross-reactivity of the immunoassay for tyramine was .apprx.0.4% and for 1-methamphetamine was <5%.

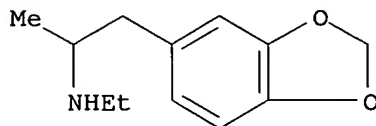
IT 4764-17-4, 3,4-Methylenedioxyamphetamine  
 42542-10-9, 3,4-Methylenedioxymethamphetamine  
 82801-81-8  
 RL: ANT (Analyte); ANST (Analytical study)  
 (determination of, by fluorescence polarization immunoassay)  
 RN 4764-17-4 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine, α-methyl- (9CI) (CA INDEX NAME)



RN 42542-10-9 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine, N,α-dimethyl- (9CI) (CA INDEX NAME)



RN 82801-81-8 CAPLUS  
 CN 1,3-Benzodioxole-5-ethanamine, N-ethyl-α-methyl- (9CI) (CA INDEX NAME)



=> FIL REGISTRY

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

ENTRY

66.52

SINCE FILE

TOTAL

SESSION

728.82

TOTAL

CA SUBSCRIBER PRICE

ENTRY      SESSION  
-5.84      -5.84

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STRUCTURE FILE UPDATES:      6 APR 2005    HIGHEST RN 848027-68-9  
DICTIONARY FILE UPDATES:      6 APR 2005    HIGHEST RN 848027-68-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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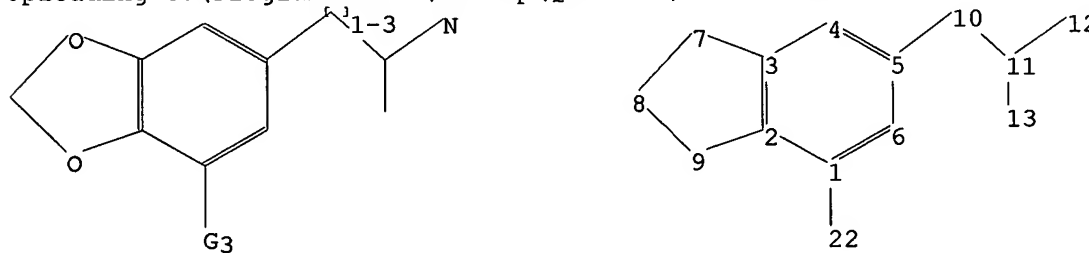
\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
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\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
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=>

Uploading C:\Program Files\Stnexp\Queries\10736018d.str



chain nodes :  
10 11 12 13 22  
ring nodes :  
1 2 3 4 5 6 7 8 9  
chain bonds :  
1-22 5-10 10-11 11-12 11-13  
ring bonds :  
1-2 1-6 2-3 2-9 3-4 3-7 4-5 5-6 7-8 8-9  
exact/norm bonds :  
1-22 11-12  
exact bonds :  
2-9 3-7 5-10 7-8 8-9 10-11 11-13  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6  
isolated ring systems :



containing 1 :

G1:H,CH3,Et

G2:CH3,Et,H

G3:O,S,N

Hydrogen count :

1:= exact 1 4:= exact 1 6:= exact 1 8:= exact 2 10:= exact 2 11:= exact 1  
13:= exact 3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS  
11:CLASS 12:CLASS 13:CLASS 22:CLASS

L20 STRUCTURE UPLOADED

=> s l20

SAMPLE SEARCH INITIATED 12:54:43 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 9 TO 360  
PROJECTED ANSWERS: 0 TO 0

L21 0 SEA SSS SAM L20

=> s l21 sss full

FULL SEARCH INITIATED 12:55:00 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 144 TO ITERATE

100.0% PROCESSED 144 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L22 0 SEA SSS FUL L20

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	890.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.84

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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 15  
FILE LAST UPDATED: 6 Apr 2005 (20050406/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l22  
L23 0 L22

=> log y	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.45	890.60
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-5.84

STN INTERNATIONAL LOGOFF AT 12:55:27 ON 07 APR 2005